

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number
WO 2005/004085 A1

(51) International Patent Classification⁷: **G09B 5/06, 5/14**

(21) International Application Number:
PCT/IB2004/051134

(22) International Filing Date: 6 July 2004 (06.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03145833.5 8 July 2003 (08.07.2003) CN

(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JING, Sheng**
[CN/CN]; Philips Electronics China 21/F Kerry, Office
Building 218 Tian Mu Xi Road, Shanghai 200070 (CN).

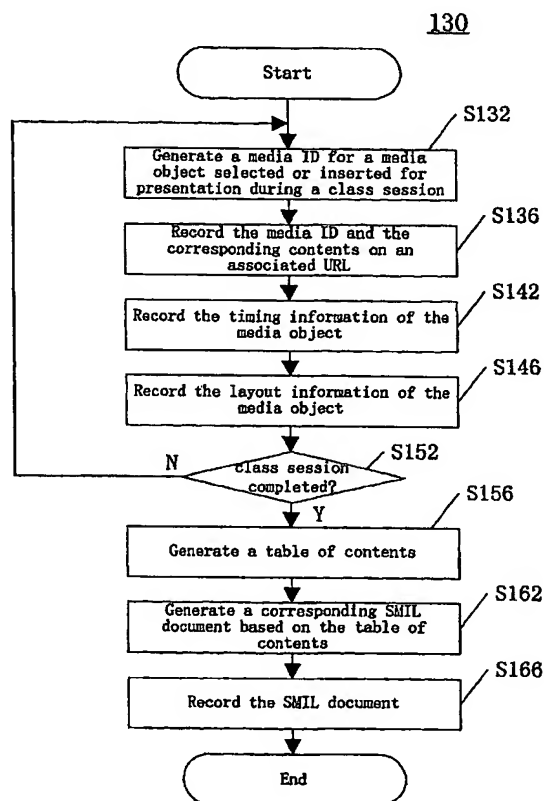
PENG, Yang [CN/CN]; Philips Electronics China 21/F
Kerry, Office Building 218 Tian Mu Xi Road, Shanghai
200070 (CN). **HE, Dahua** [CN/CN]; Philips Electronics
China 21/F Kerry, Office Building 218 Tian Mu Xi Road,
Shanghai 200070 (CN).

(74) Common Representative: **KONINKLIJKE PHILIPS
ELECTRONICS N.V.**; c/o van der Veer, Johannis, L.,
Prof. Holstlaan, 6, NL-5656 AA Eindhoven (NL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

[Continued on next page]

(54) Title: **METHODS AND SYSTEMS FOR PRESENTING AND RECORDING CLASS SESSIONS IN A VIRTUAL CLASS-ROOM**



(57) Abstract: The present invention provides an improved distance learning solution. According to one embodiment of the invention, there provides a method for delivering a class session to students with client terminals in a virtual classroom. In this method, operations performed at a super client terminal in accordance with a teacher's actions are interpreted. The operations performed at the super client terminal includes presenting media objects selected by the teacher, that are prestored on a storage medium such as an optical disc. Then, relevant commands and parameters based on the teacher's actions are sent to client terminals to cause similar operations to be performed on the client terminals. In this way, the students' experience relating to presentation of the media objects at the clients terminals is controlled based on the operations performed at the super client. The whole class session in the virtual classroom including all the interactions among the class participants can be recorded and subsequently simulated.



(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,

Published:

— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.